Epidemiology of Attention-Deficit/Hyperactivity Disorder: National and State-Based Patterns and Opportunities for Policy Evaluation

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December 9, 2014 ADHD Symposium, Baton Rouge, LA

The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



Attention-Deficit/Hyperactivity Disorder Diagnostic Criteria

The Gold Standard: Diagnostic and Statistical Manual of Mental Disorders-5 (DSM-5)

- Symptom Count (6 or more; 5 or more for 17+)
 - Inattention and/or Hyperactivity
 - Presentations (subtypes): Inattentive, Hyperactive, Combined
- Age of Onset (symptoms before age 12)
- Impairment (significant)
- Pervasiveness (multiple settings)
- Rule-Outs

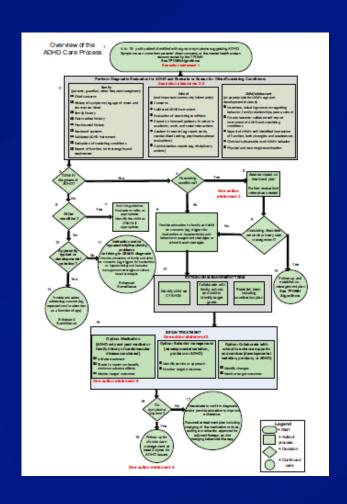
Practice Guidelines from Professional Academies

- AAP Diagnostic and Treatment Guidelines
 - Recommendations and special considerations, by age
 - ADHD Process of Care Algorithm
- AACAP Diagnostic and Treatment Guidelines



AAP Guidance on Diagnosis and Management

- ADHD evaluation for any child (4-18) who presents with academic or behavioral problems and symptoms of inattention, hyperactivity, or impulsivity
- Assess with DSM criteria
 - Symptoms and impairment in more than 1 major setting
 - Information should be obtained from parents or guardians, teachers, and other school and mental health clinicians involved in the child's care
 - Clinician should rule out alternative causes
- Clinician should assess comorbidities
- Clinician should recognize ADHD as a chronic condition



AAP's Subcommittee on Attention-Deficit/Hyperactivity Disorder Steering Committee on Quality Improvement and Management. ADHD: Clinical Practice Guideline for the Diagnosis, Evaluation, and Treatment of Attention-Deficit/Hyperactivity Disorder in Children and Adolescents. *Pediatrics*. November 1, 2011 2011;128(5):1007-1022.

Prevalence of ADHD among School-Aged Youth: National Survey of Children's Health

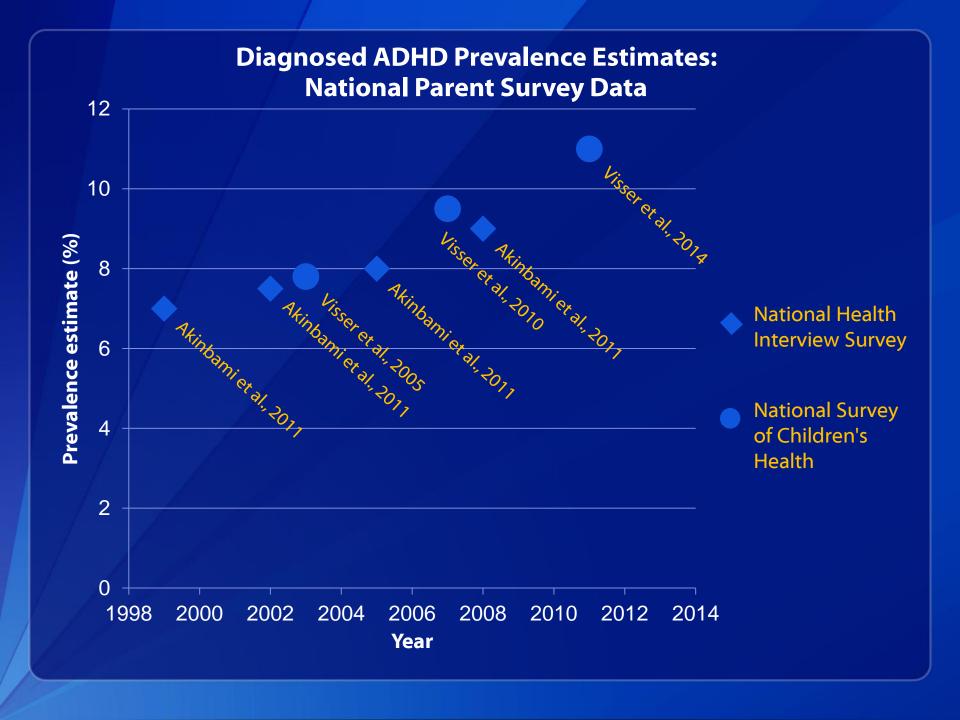
2011-12 National Population Estimates

- 6.4 million youth 4-17 years ever diagnosed
 - 2 million more than in 2003
- 5.1 million with a current ADHD diagnosis
- 3.5 million taking medication for ADHD
 - 1 million more than in 2003

2011-12 National Prevalence Rate (%)

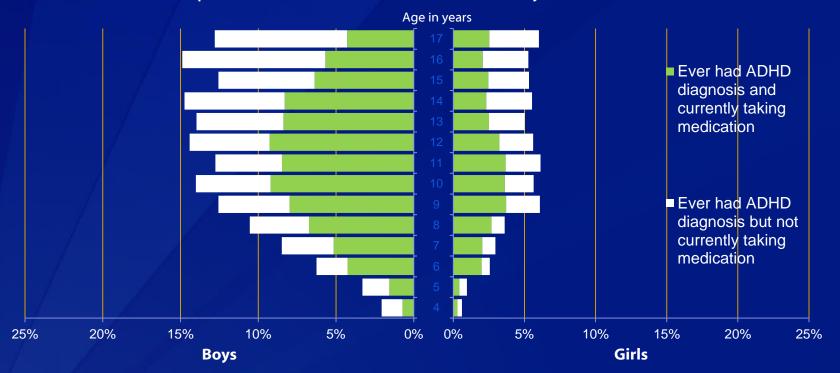
- 11% of youth 4-17 years of age ever diagnosed
 - Up from 7.8% in 2003-2004; a 42% increase (~5% per year)
- 8.8% with a current diagnosis
- 6.1% taking medication for ADHD
 - Up from 4.8% in 2003; a 28% increase since 2007 (~7% per year)

Visser, S. N., Danielson, M. L., Bitsko, R. H., Holbrook, J. R., Kogan, M. D., Ghandour, R. M., . . . Blumberg, S. J. (2014). Trends in the Parent-Report of Health Care Provider-Diagnosed and Medicated Attention-Deficit/Hyperactivity Disorder: United States, 2003–2011. *Journal of the American Academy of Child and Adolescent Psychiatry*, 53(1), 34-46.e32.



Weighted Prevalence Estimates (%) of Attention-Deficit/Hyperactivity Disorder (ADHD) Diagnosis by a Health Care Provider among U.S. Children, by Age and Medication Status

Parent-Reported Data from the National Survey of Children's Health

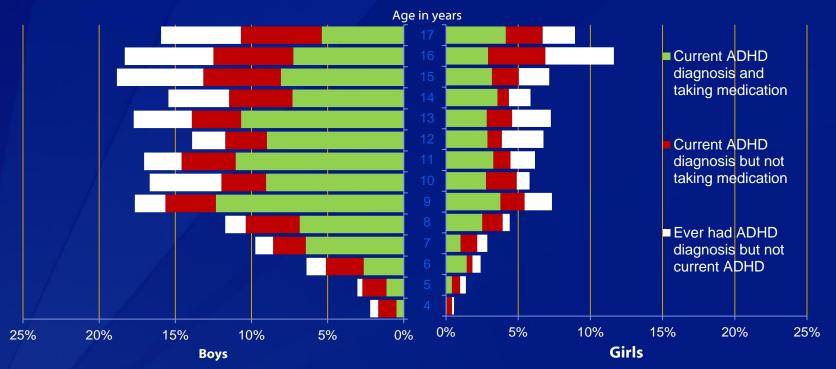


2003-2004

Visser, S. N., Danielson, M. L., Bitsko, R. H., Holbrook, J. R., Kogan, M. D., Ghandour, R. M., . . . Blumberg, S. J. (2014). Trends in the Parent-Report of Health Care Provider-Diagnosed and Medicated Attention-Deficit/Hyperactivity Disorder: United States, 2003–2011. *Journal of the American Academy of Child and Adolescent Psychiatry*, *53*(1), 34-46.e32.

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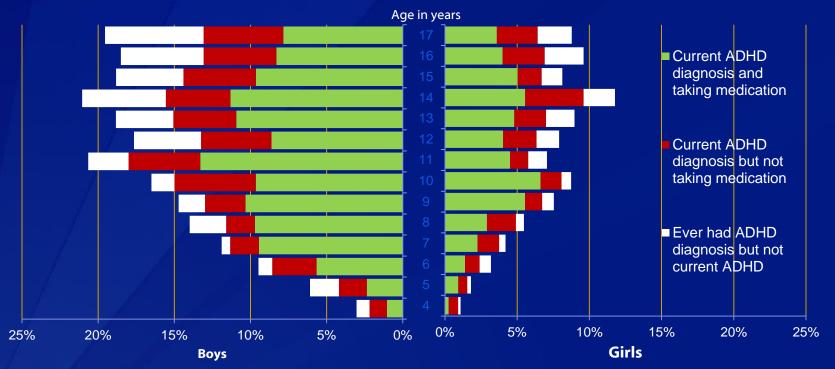


2007-2008

Visser, S. N., Danielson, M. L., Bitsko, R. H., Holbrook, J. R., Kogan, M. D., Ghandour, R. M., . . . Blumberg, S. J. (2014). Trends in the Parent-Report of Health Care Provider-Diagnosed and Medicated Attention-Deficit/Hyperactivity Disorder: United States, 2003–2011. *Journal of the American Academy of Child and Adolescent Psychiatry*, *53*(1), 34-46.e32.

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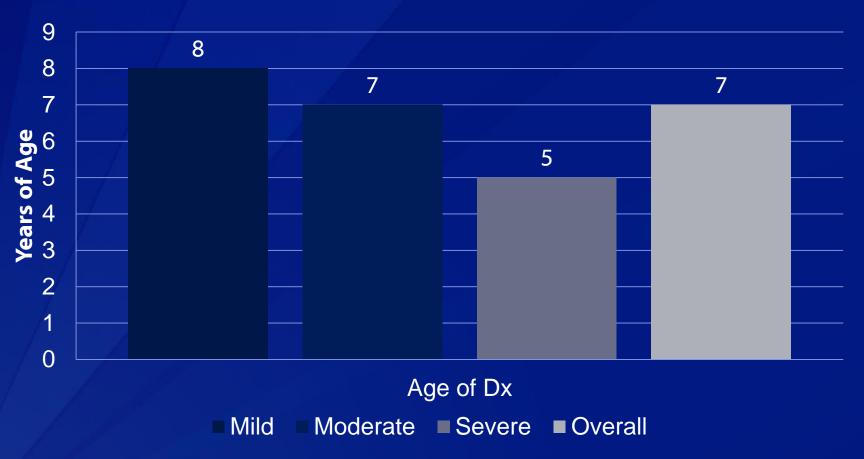
Parent-Reported Data from the National Survey of Children's Health



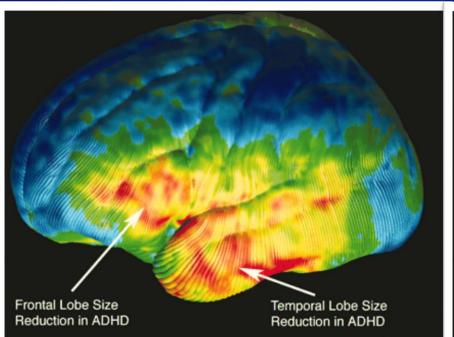
2011-2012

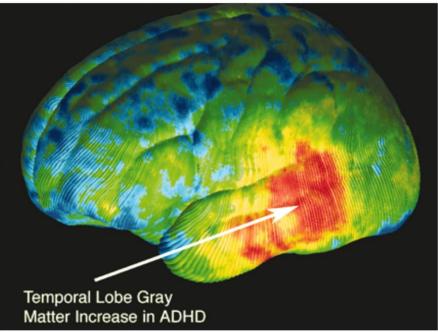
Visser, S. N., Danielson, M. L., Bitsko, R. H., Holbrook, J. R., Kogan, M. D., Ghandour, R. M., . . . Blumberg, S. J. (2014). Trends in the Parent-Report of Health Care Provider-Diagnosed and Medicated Attention-Deficit/Hyperactivity Disorder: United States, 2003–2011. *Journal of the American Academy of Child and Adolescent Psychiatry*, *53*(1), 34-46.e32.

Age of Diagnosis by ADHD Severity Level: NSCH 2011-12



Visser, S. N., Danielson, M. L., Bitsko, R. H., Holbrook, J. R., Kogan, M. D., Ghandour, R. M., ... Blumberg, S. J. (2014). Trends in the Parent-Report of Health Care Provider-Diagnosed and Medicated Attention-Deficit/Hyperactivity Disorder: United States, 2003–2011. *Journal of the American Academy of Child and Adolescent Psychiatry*, 53(1), 34-46.e32.





Anatomical Differences in Youth with ADHD

Sowell, E. R., Thompson, P. M., Welcome, S. E., Henkenius, A. L., Toga, A. W., & Peterson, B. S. (2003). Cortical abnormalities in children and adolescents with attention-deficit hyperactivity disorder. *Lancet*, *362*(9397), 1699-1707.

Anatomical Differences in Youth with ADHD

- Evidence of a Developmental Delay in Brain Growth and Subsequent Cortical Pruning Process
 - Multiple brain-imaging scans of 234 children with ADHD and 231 normally developing children
 - Scans beginning at 10 years and continued until 17
 - Cortical pruning happened around 13 for normally developing kids, but not until almost 15 for kids with ADHD
- Conclusions
 - Some children will "outgrow" ADHD when brain development catches up
 - Impairment may be felt long-term
 - Some children will never catch up

Persistence of ADHD Symptoms

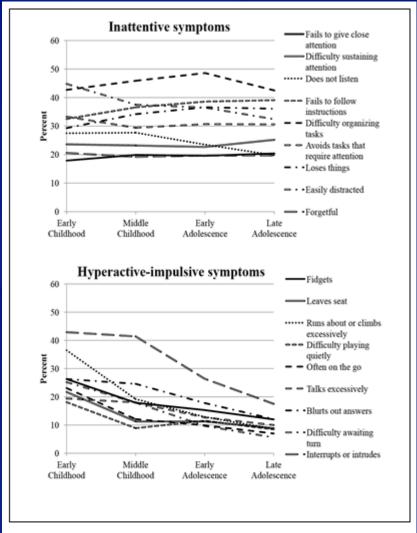
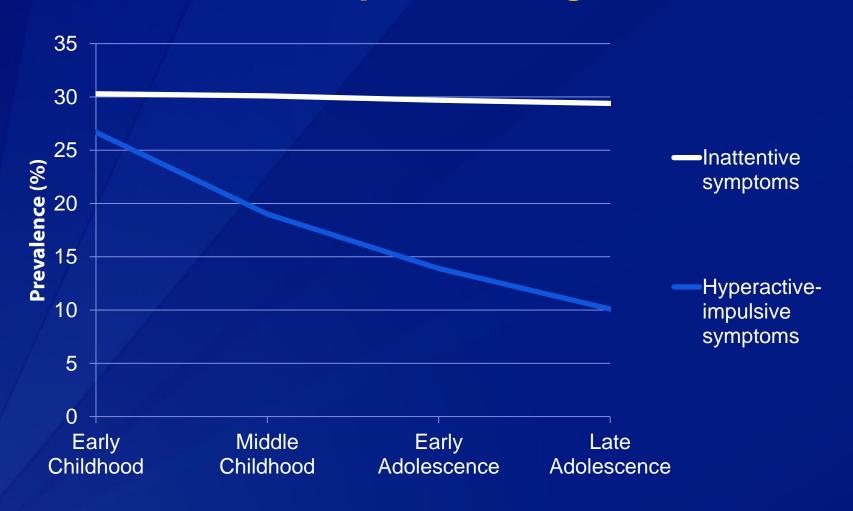
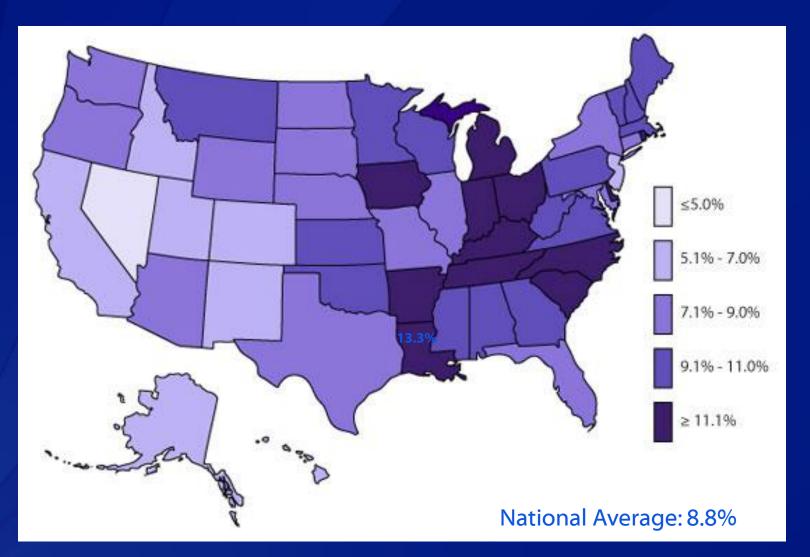


Figure 1. Prevalence of parent-reported ADHD symptoms by developmental stage.

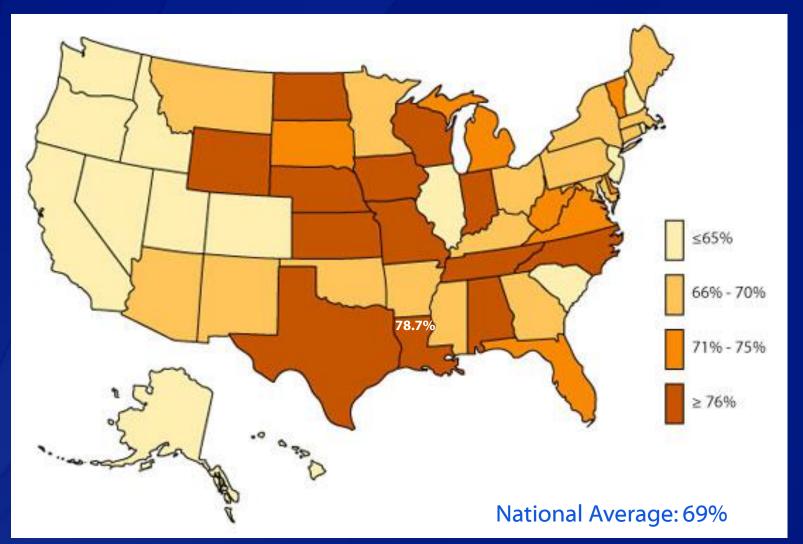
Average Prevalence of ADHD Symptoms by Developmental Stage



Current ADHD Diagnosis: NSCH, 2011-12



Current ADHD Medication Treatment: NSCH, 2011-12



A CLOSER LOOK AT LOUISIANA

State Profile: Louisiana

Parent-Reported Diagnosis of ADHD by a Health Care Provider and Medication Treatment Among Children 4-17 Years: National Survey of Children's Health* – 2003 to 2011

Survey Question

Has a doctor or health care provider <u>ever</u> told you that your child had attention-deficit/hyperactivity disorder or attention deficit disorder (ADHD or ADD)?



In 2007, 7.2% of US children and 11.7% of children in Louisiana had *current* ADHD, by parent report.

In 2011, 8.8% of US children and 13.3% of children in Louisiana had *current* ADHD, by parent report.

Does your child <u>currently</u> have ADHD or ADD?



Among all US states, Louisiana ranked 2nd highest.



Among all US states, Louisiana ranked 3rd highest.

Is your child <u>currently</u> taking medication for ADHD or ADD? In 2007, 4.8% of US children and 8.3% of children in Louisiana were taking medication for ADHD.



Among all US states, Louisiana ranked 2nd highest. In 2011, 6.1% of US children and 10.4% of children in Louisiana were taking medication for ADHD.



Among all US states, Louisiana ranked 1st highest.

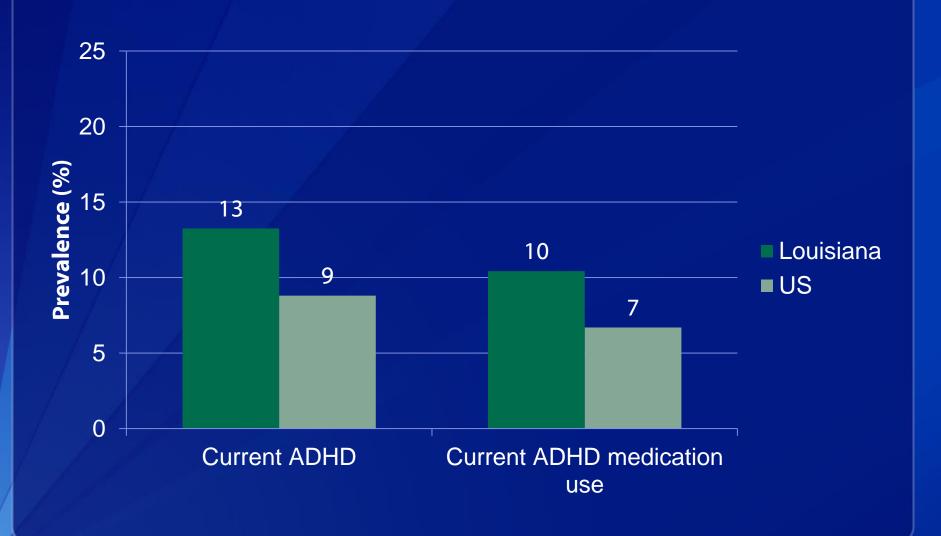
National Center on Birth Defects and Developmental Disabilities

Division of Human Development and Disability

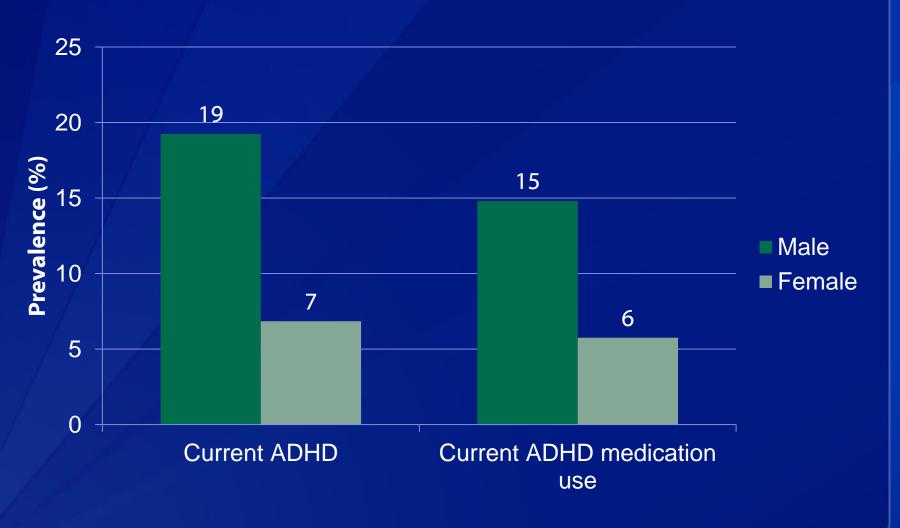


^{*} The National Survey of Children's Health is conducted by CDC and sponsored by the Maternal and Child Health Bureau, HRSA: www.cdc.gov/nchs/slaits/nsch.htm

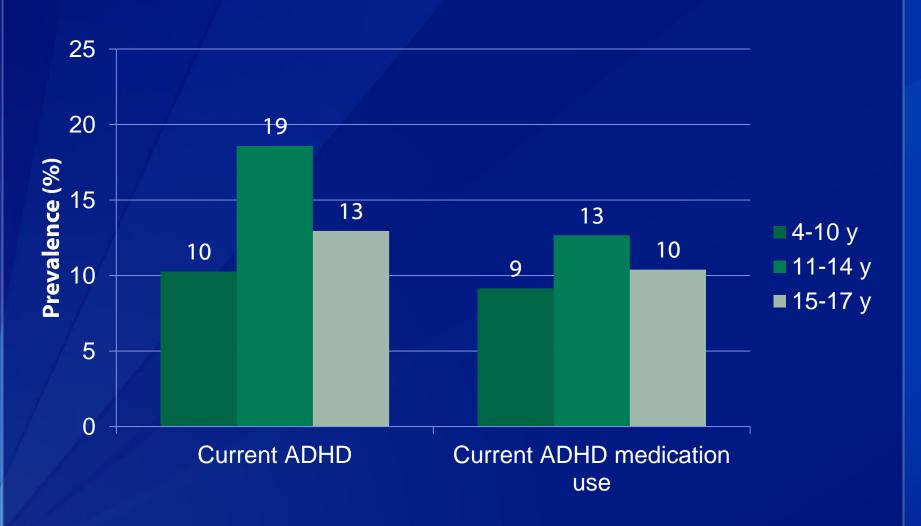
National Survey of Children's Health: 2011-12



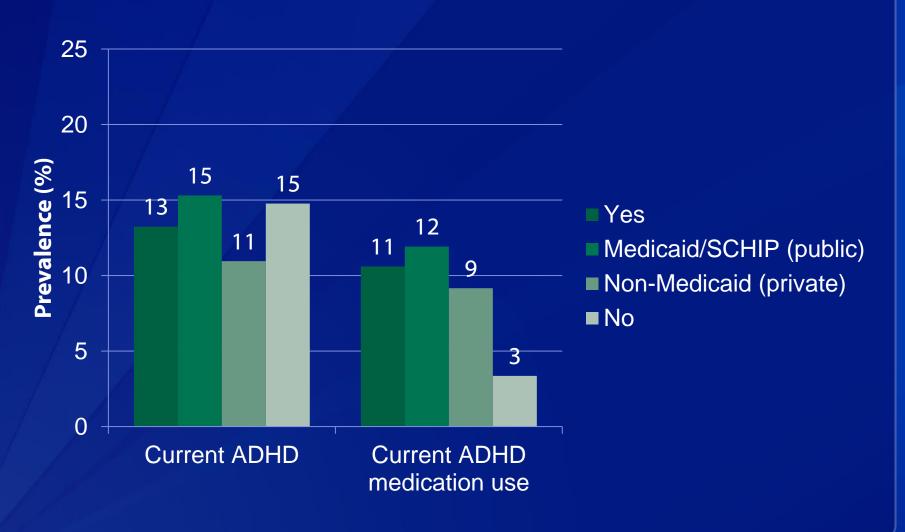
Louisiana: ADHD Indicators by Gender National Survey of Children's Health: 2011-12



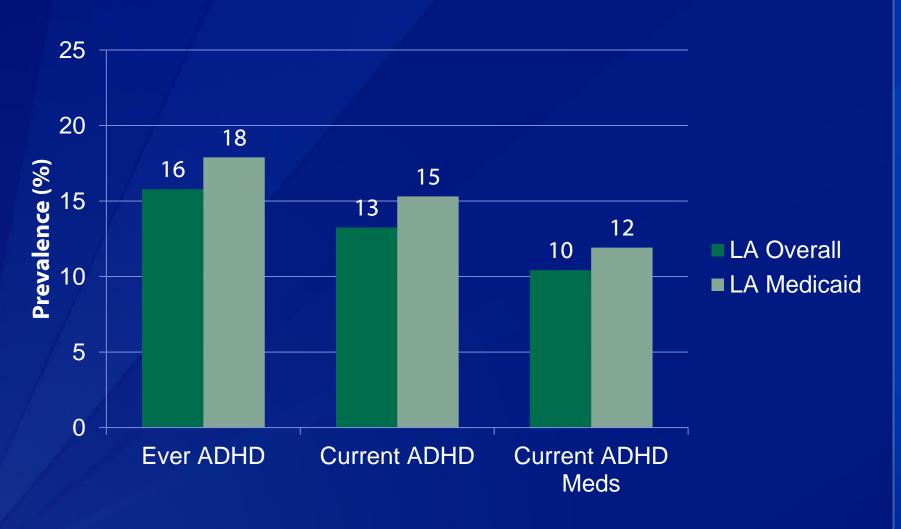
Louisiana: ADHD Indicators by Age National Survey of Children's Health: 2011-12



Louisiana: ADHD Indicators by Insurance Type *National Survey of Children's Health: 2011-12*

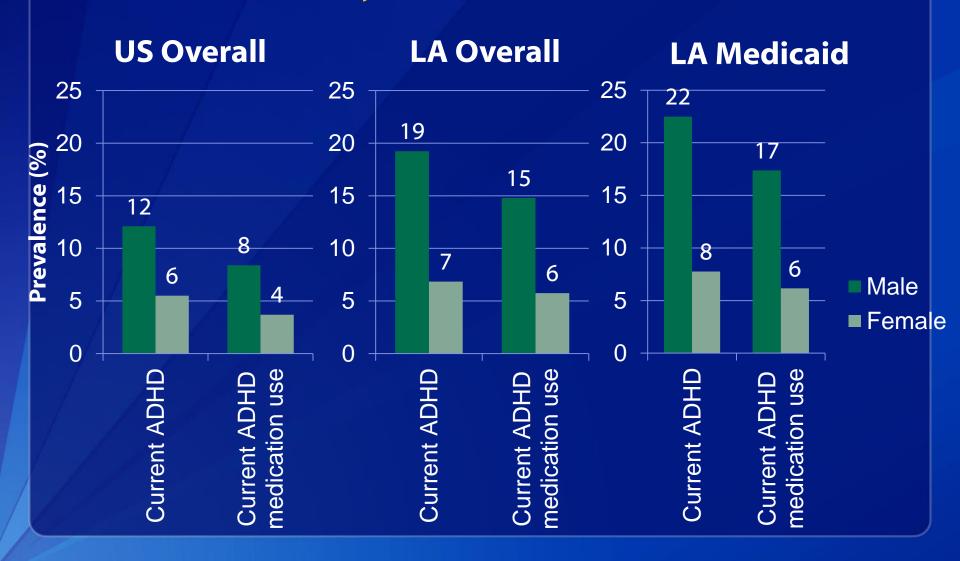


Louisiana: ADHD Indicators by Insurance Type *National Survey of Children's Health: 2011-12*

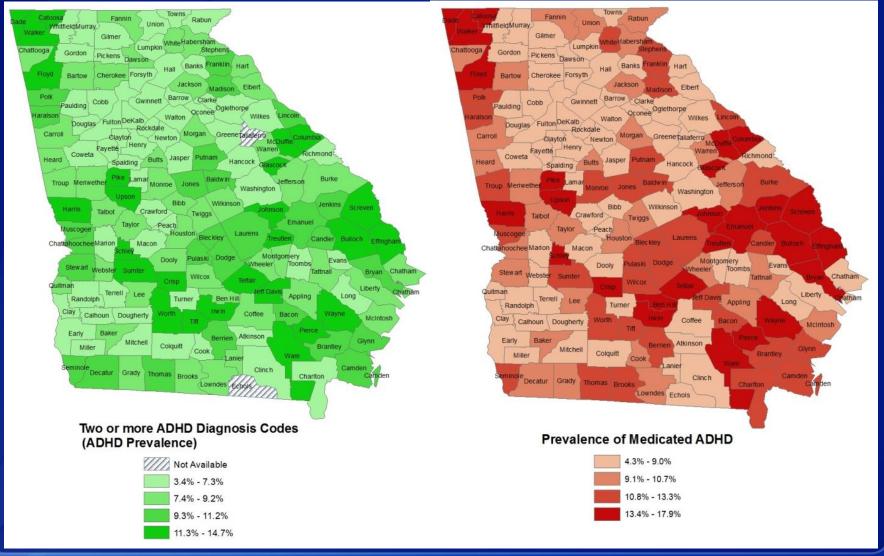


Louisiana: ADHD Indicators by Gender

National Survey of Children's Health: 2011-12



GA Medicaid Claims Data: Adolescents (11-17 years) Enrolled in Medicaid, 2011



Age-specific ADHD Treatment Recommendations from AAP

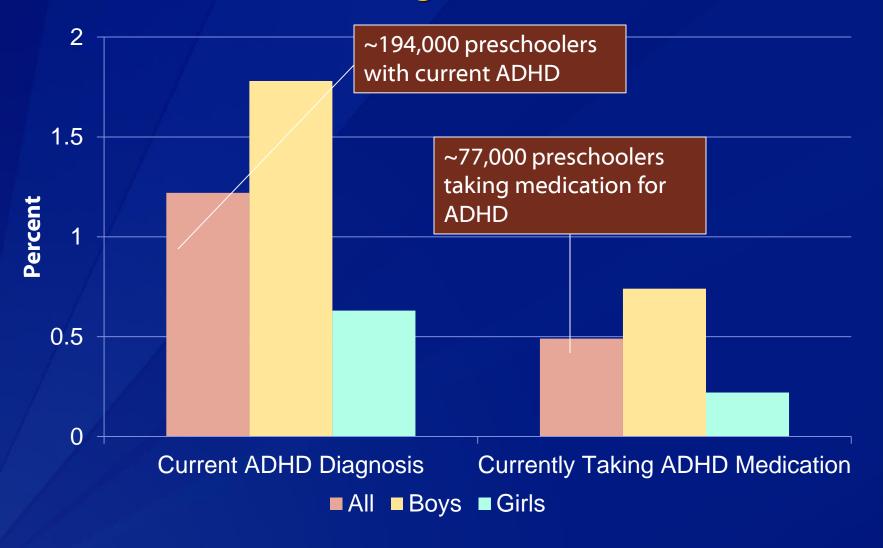


- For preschoolers (4–5 years), evidence-based parent and/or teacher administered behavior therapy as the <u>first line of treatment</u>
 - May prescribe methylphenidate if the behavior interventions do not provide significant improvement and there is moderate-to severe continuing disturbance in the child's function
 - If evidence-based behavioral treatments are not available, weigh the risks of starting medication at an early age against the harm of delaying diagnosis and treatment
 - The primary care clinician should titrate doses of medication
- Children 6-12 should receive both ADHD medication and behavioral therapy
- Adolescents (13-18) should receive medication and behavioral therapy too, if possible

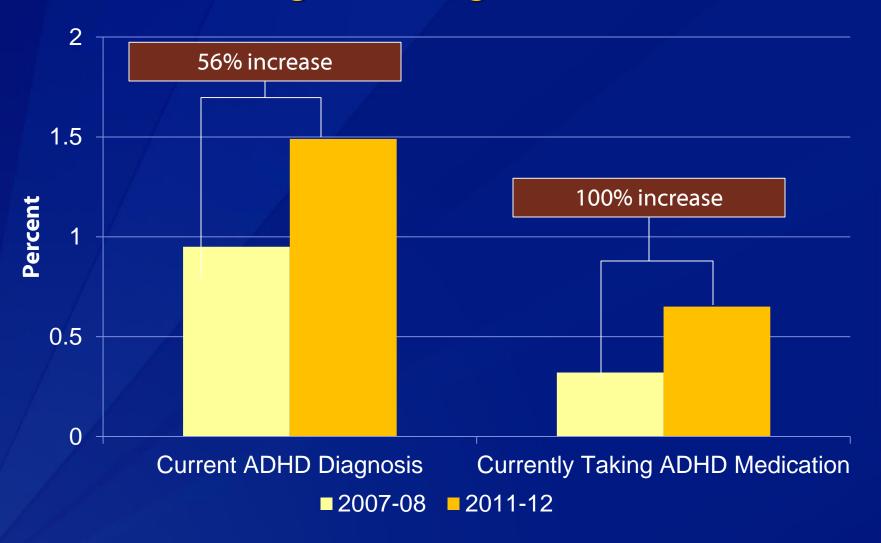
AAP's Subcommittee on Attention-Deficit/Hyperactivity Disorder Steering Committee on Quality Improvement and Management, Wolraich M, Brown L, et al. ADHD: Clinical Practice Guideline for the Diagnosis, Evaluation, and Treatment of Attention-Deficit/Hyperactivity Disorder in Children and Adolescents. *Pediatrics*. November 1, 2011 2011;128(5):1007-1022.

A CLOSER LOOK AT PRESCHOOLERS WITH ADHD

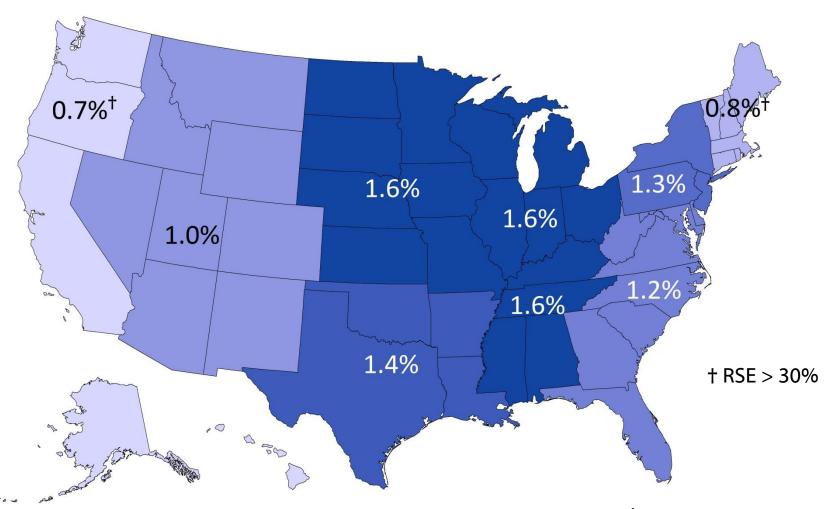
ADHD Diagnosis and Medication Treatment among Children Aged 2-5 Years



Results – ADHD Diagnosis and Medication Treatment among Children Aged 2-5 Years

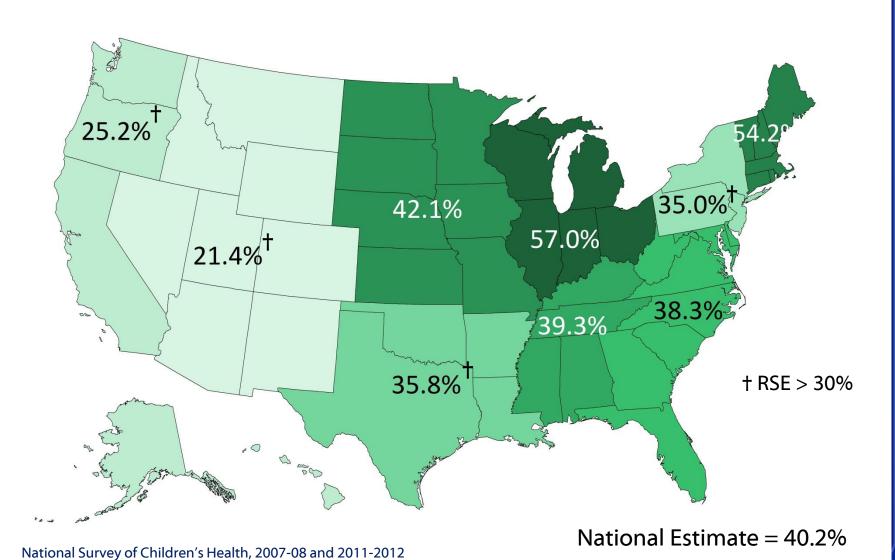


Current ADHD Diagnosis among Children Aged 2-5 Years

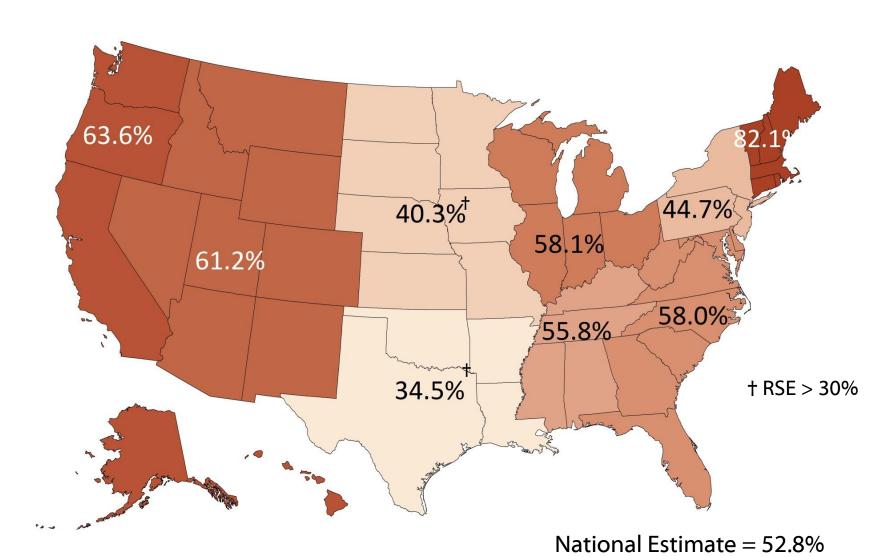


National Estimate = 1.2%

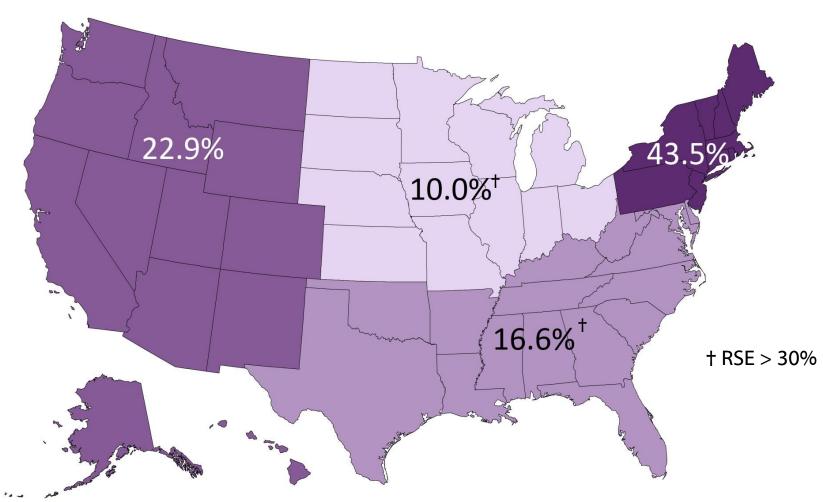
Percentage of Children Aged 2-5 Years with ADHD Who Currently Take ADHD Medication



Percentage of CSHCN aged 2-5 Years With ADHD Who Received Behavioral Therapy in Past 12 Months



Percentage of CSHCN aged 2-5 Years With ADHD Who Received Neither Medication Nor Behavioral Therapy



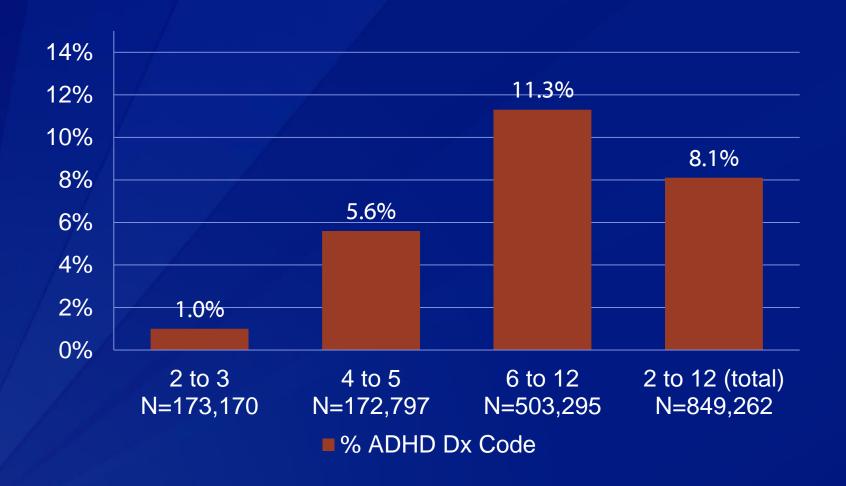
National Estimate = 22.1%

Digging Deeper with the GA Interagency Directors Team

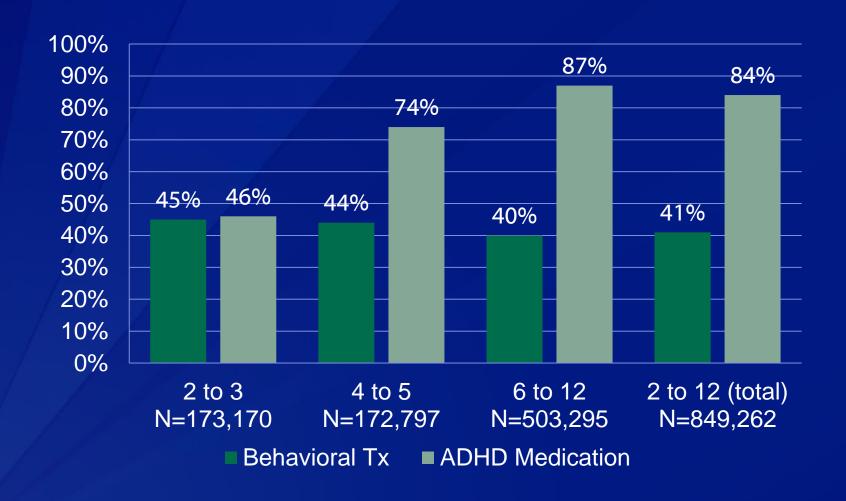
GA as a Proof of Concept State

Among all US states, Georgia ranks 25th highest for current ADHD prevalence.

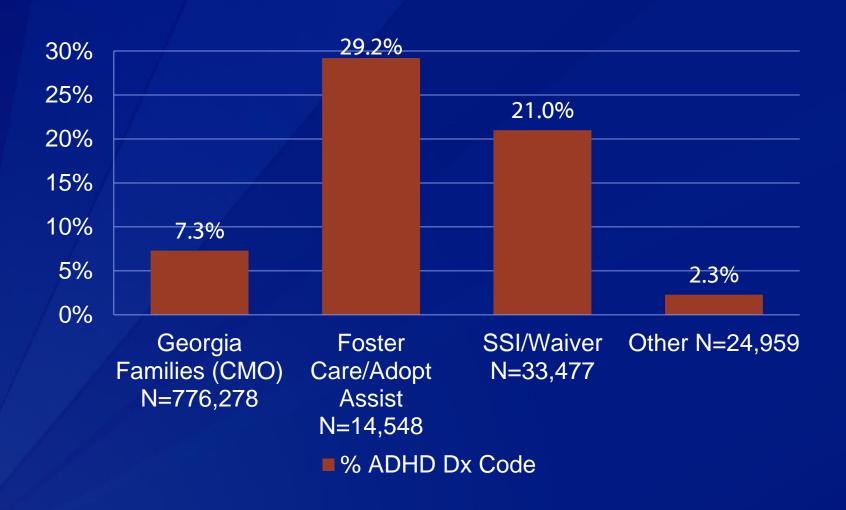
Percentage of GA Children in Medicaid with 2+ ADHD Diagnosis Codes (2012)



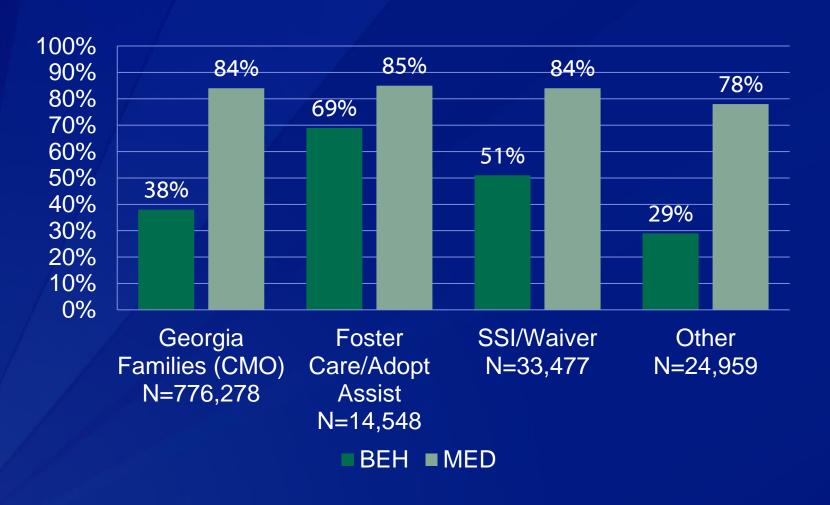
Treatment of GA Children in Medicaid with 1+ ADHD Diagnosis Codes and 1+ treatment claim (2012)



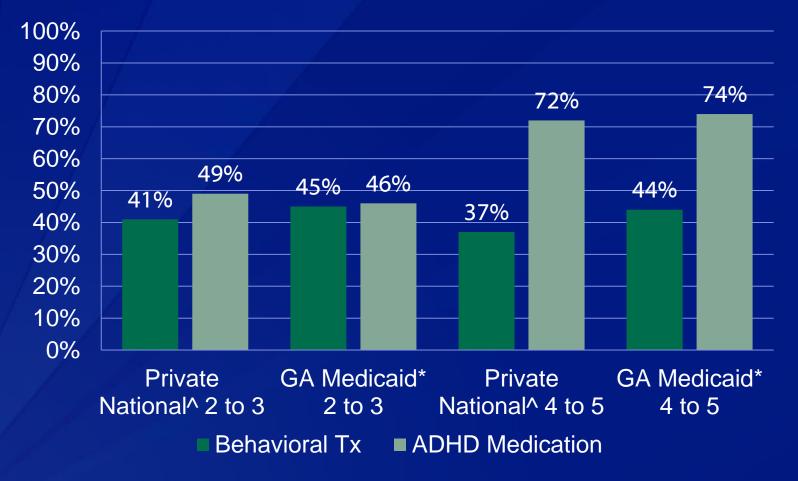
Percentage of Children in Medicaid with 2+ ADHD Diagnosis Codes (2012), by Eligibility Categories



Treatment of Children in Medicaid with 1+ ADHD Diagnosis Codes and 1+ Treatment Codes (2012), by Eligibility Categories



Treatment of Children with 2+ ADHD Diagnosis Codes, by Insurance Status and Geography



[^] Among a MarketScan sample of 10,000,000 individuals; unpublished data

^{*} Unpublished data; released in collaboration with Georgia Inter-Agency Directors' Team

Age-Specific ADHD Treatment Recommendations from AAP: Preschoolers

- Parent and/or teacher behavior therapy should be the *first line of treatment* for children aged 4-5 years
 - Methylphenidate can be prescribed if behavior interventions do not provide significant improvement
 - If evidence-based behavioral treatments are not available, the risks of starting medication at an early age must be weighed against the harm of delaying diagnosis and treatment



FROM THE AMERICAN ACADEMY OF PEDIATRICS.

Guidance for the Clinician i

CLINICAL PRACTICE GUIDELINE

ADHD: Clinical Practice Guideline for the Diagnosis. Evaluation, and Treatment of Attention-Deficit/ Hyperactivity Disorder in Children and Adolescents

MPROVEMENT AND MANAGEMENT

preschool, behavioral therapy, medication

A REFEVENTIONS

ADHD—attention-deficit/hyperadaity disorder DSM-PC—Diagnostic and Statistical Manual for Primary Care CDG—Centers for Disease Control and Prevention FDA Food and Drug Administration

DSM-N—Biognostic and Statistical Manual of Mental Bisorders, Fourth Edition MTA—Multimodal Therapy of ADHD

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course of treatment or serve as a standard of medical care. Variations, taking into account individual circumstances, may be

www.pediatrics.ors/csi/doi/10.1542/pads.2011.2654 doi:10.1542/pads.2011-2654

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Attention-deficit/hyperactivity disorder (ADHD) is the most common neurobehavioral disorder of childhood and can profoundly affect the academic achievement, well-being, and social interactions of children: the American Academy of Pediatrics first published clinical recommen dations for the diagnosis and evaluation of ADHD in children in 2000: recommendations for treatment followed in 2001. Pediatrics 2011:128:

Summary of key action statements

- 1. The primary care clinician should initiate an evaluation for ADHD for any child 4 through 18 years of age who presents with academic or behavioral problems and symptoms of inattention, hyperactivity, or impulsivity (quality of evidence B/strong recommendation).
- To make a diagnosis of ADHD, the primary care clinician should determine that Diagnostic and Statistical Manual of Mental Disorders. Fourth Edition criteria have been met (including documentation of impairment in more than 1 major setting); information should be obtained primarily from reports from parents or guardians, teachers, and other school and mental health clinicians involved in the child's care. The primary care clinician should also rule out any alternative cause (quality of evidence B/strong recommendation)
- 3. In the evaluation of a child for ADHD, the primary care clinician should include assessment for other conditions that might coexist with ADHD, including emotional or behavioral (eg, anxiety, depressive, oppositional defiant, and conduct disorders), developmental (eg, learning and language disorders or other neurodevelopmental disorders), and physical (eg, tics, sleep apnea) conditions (quality of evidence B/strong recommendation).
- The primary care clinician should recognize ADHD as a chronic condition and, therefore, consider children and adolescents with ADHD as children and youth with special health care needs. Management of children and youth with special health care needs should follow the principles of the chronic care model and the medical home (quality of evidence B/strong recommendation).

American Academy of Pediatrics' Subcommittee on Attention-Deficit/Hyperactivity Disorder Steering Committee on Quality Improvement and Management, Wolraich M, Brown L, et al. ADHD: Clinical Practice Guideline for the Diagnosis, Evaluation, and Treatment of Attention-Deficit/Hyperactivity Disorder in Children and Adolescents. Pediatrics. November 1, 2011 2011;128(5):1007-1022.

Comparative Effectiveness of ADHD and DBD Interventions in Young Children (< 6 years)

Table A. KQ1: Effectiveness of interventions for ADHD and DBD in children younger than 6 years of age

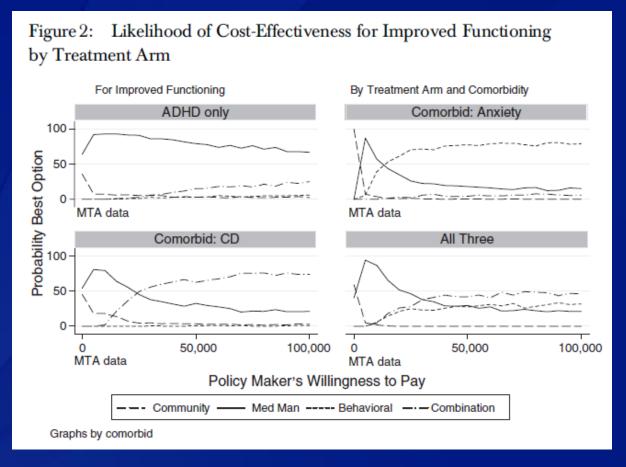
Intervention	Level of Evidence	Conclusion			
Parent Behavior Training	SOE: High SMD: -0.68 (95% CI, -0.88 to -0.47)	Parent behavioral interventions are an efficacious treatment option for preschoolers with DBD and show benefit for ADHD symptoms.			
		These studies support the long-term effectiveness of parent interventions for preschoolers with DBD, including ADHD symptoms, with evidence that benefits are maintained for up to 2 years. There also appears to be a dose-response effect.			
Medication (MPH Only)	SOE: Low SMD: -0.83 (95% CI, -1.21 to -0.44)	With evidence drawn primarily from the PATS study, MPH (e.g., short-acting, immediate-release MPH) is both efficacious and generally safe for treatment of ADHD symptoms, but there has been no long-term followup in preschoolers.			

Note: ADHD = attention deficit hyperactivity disorder; CI = confidence interval; DBD = disruptive behavior disorder; KQ = Key Question; MPH = methylphenidate; PATS = Preschool ADHD Treatment Study; PBT = parent behavior training; SMD = standardized mean difference; SOE = strength of evidence.

Available at: http://effectivehealthcare.ahrq.gov/ehc/products/191/814/CER44_ADHD_ExecSumm_20111021.pdf

**Charach A, Carson P, Fox S, Ali MU, Beckett J, Lim CG. Interventions for Preschool Children at High Risk for ADHD: A Comparative Effectiveness Review. *Pediatrics*. 2013;131(5):e1584-e1604.

Behavioral Therapy is an Important and Cost-Effective ADHD Treatment



Foster, E. M., Jensen, P. S., Schlander, M., Pelham, W. E., Jr., Hechtman, L., Arnold, L. E., ... Wigal, T. (2007). Treatment for ADHD: is more complex treatment cost-effective for more complex cases? *Health Serv Res, 42*(1 Pt 1), 165-182. doi: 10.1111/j.1475-6773.2006.00599.x

Evidence-Based Therapies for Preschoolers with ADHD

- The Agency for Health Care Research and Quality (AHRQ) reviewed treatments for preschoolers with behavioral problems
- Recommended parent behavioral interventions as a good treatment option for preschoolers with ADHD, ADHD symptoms, and disruptive behavior in general
- 4 programs for parents of preschoolers
 - Triple P (Positive Parenting of Preschoolers program)
 - Incredible Years Parenting Program
 - Parent-Child Interaction Therapy (PCIT)
 - New Forest Parenting Programme
- Key components of effective programs
 - Help parents develop a positive relationship with their child
 - Teach them about how children develop
 - Help them manage negative behavior with positive discipline

Gaynes B, Christian R, Saavedra L, Wines R, Jonas D, Viswanathan M, Ellis A, Woodell C, Carey T. Treatment in At-Risk Preschoolers; Long-Term Effectiveness in All Ages; and Variability in Prevalence, Diagnosis, and Treatment. Rockville (MD), 2012.

Components of Effective Parenting Programs

- Proliferation of parent training programs as prevention/intervention
- New uses of parent training programs
- Research Questions
 - How effective is parent training?
 - Is all "parent training" the same?
- Meta-analysis of components of effective parenting programs (0-7 years of age) with outcomes on:
 - Parent behavior & skill acquisition
 - Child externalizing behaviors
- 77 published studies

J Abnorm Child Psychol (2008) 3 6:567-589 DOI 10.1007/s10802-007-9201-9

A Meta-analytic Review of Components Associated with Parent Training Program Effectiveness

Jennifer Wyatt Kaminski - Linda Anne Valle Jill H. Filene - Cynthia L. Boyle

Published online 19 January 2008 © Centers for Disease Control and Prevention 2005

Abstract This component analysis used meta-analysis techniques to synthesize the neution of 77 publical exchanges to synthesize the neution of 77 publical exchanges desired and programs (e.e., programs that included the article exquisition of preenting skills) to enhance behavior and adjustment in children aged 0-7. Characteristics of programs content and delivery method were used to predict effect size on measures of juncting behaviors and children's act enabling behavior. After controlling for difference articleshable to research design, program components consistently associated with larger-effects included increasing positive parest-child sendencions and encotional communication skills, teaching passess to use time out and the importance of pracertaing consistency,

The findings and conclusions in this report are those of the authors and do not necessarily represent the views of the Centers for Disease Control and Prevention.

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C. L. Boyle University of Kameas, els Marcus Institute, 1920 Briarciëf Road, Atlanta, GA 30329, USA e-mai: Jelsong/77/GlaoLcom and requiring parents to practice new skills with their child en during parent training sensions. Program components consistently associated with smaller effects included teaching parents problem noising; traching parents to promote children's cognitive, academic, or social skills; and providing other, additional services. The results we implications for selection and strengthening of existing parent training programs.

Keywords Parenttraining Meta-amilysis Child behavior problems - Component analysis

Early childhood behavior problems are senerally character ized by oppositional, aggressive, impulsive, and inattentive behaviors. Although discrete instances of such behaviors are typical in very young children, pervasive and unremitting aggression and conduct problems in childhood reliably predict delinquent, aggressive, and risky behaviors in adolescence (e.g., Broidy et al. 2003; Fergusson et al. 1994; Tolan and Gorman-Smith 1998). As well, adolescents whose problem behaviors began in childhood commit more serious and violent acts and account for a disproportionate number of all youth offenses than adolescents without an early history of conduct problems (Farrington et al. 2003 Loeber et al. 1998; Tolan and Gorman-Smith 1998 Thombery et al. 2008). Although most adolescent devi ance discontinues at the end of the teenage years, individuals who exhibited conduct problems in childhood are more likely to engage in "life-course-persistent" artispoial behavior that continues through adolescence into adulthood (Moffitt and Caspi 2001; Moffitt et al. 2002). The life-course persistent pathway from childhood conduct problems to adult criminality and violent behaviors may best be interrupted early in life, when behavioral patterns are more easily modified (Tremblay 2006).

Springer

Program Components that Predicted Parent and Child Outcomes

- Most robust predictors of parent skill acquisition
 - Teaching parents relationship-building communication skills
 - Having parents practice with their own child during the sessions
- Most robust predictors of child externalizing behaviors
 - Teaching parents to interact positively with their children and provide positive attention
 - Teaching parents consistent disciplinary responding

Behavioral Therapy for Preschoolers with ADHD: Sources of Behavioral Services

Less

Availability

Evidence-Based Behavioral Parent Training (BPT) Programs*

- Incredible Years
- Parent Child Interaction Therapy (PCIT)
- Triple P
- New Forest Programme

BPT programs that include the evidence-based <u>components</u> (positive parenting-child interaction, consistent disciplinary responding)

Promising Component Programs

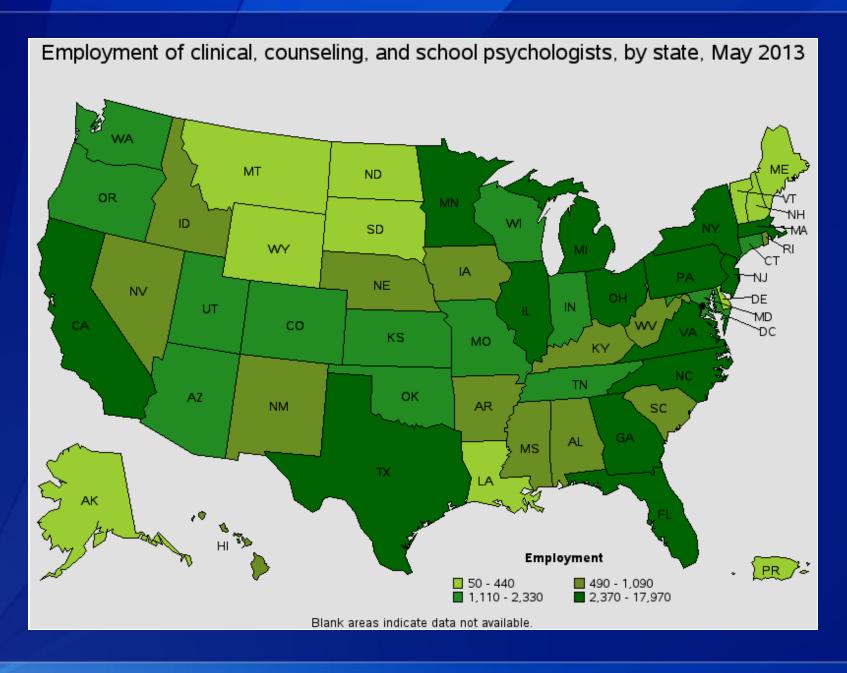
Clinicians who can administer BPT consistent with the evidence-based *components*

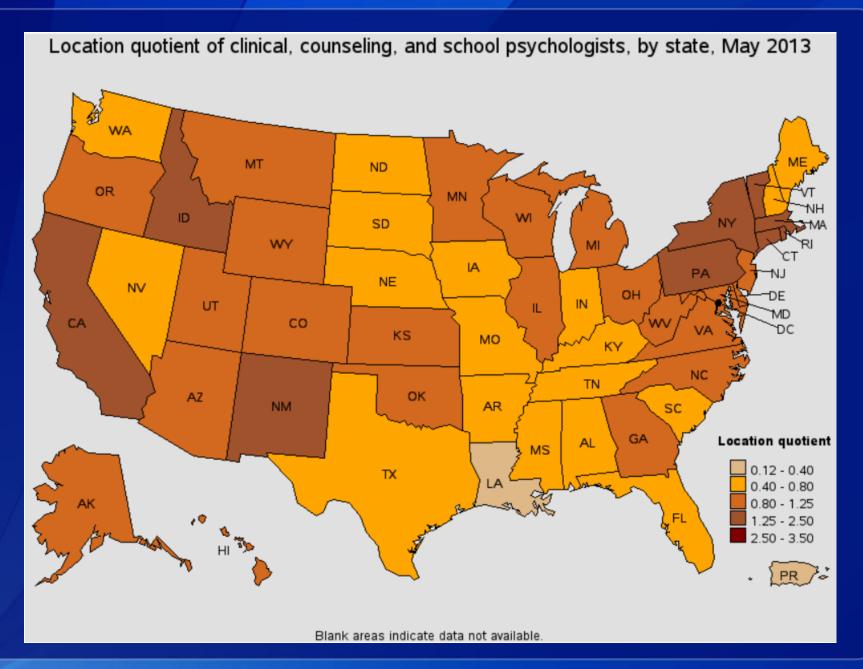
More

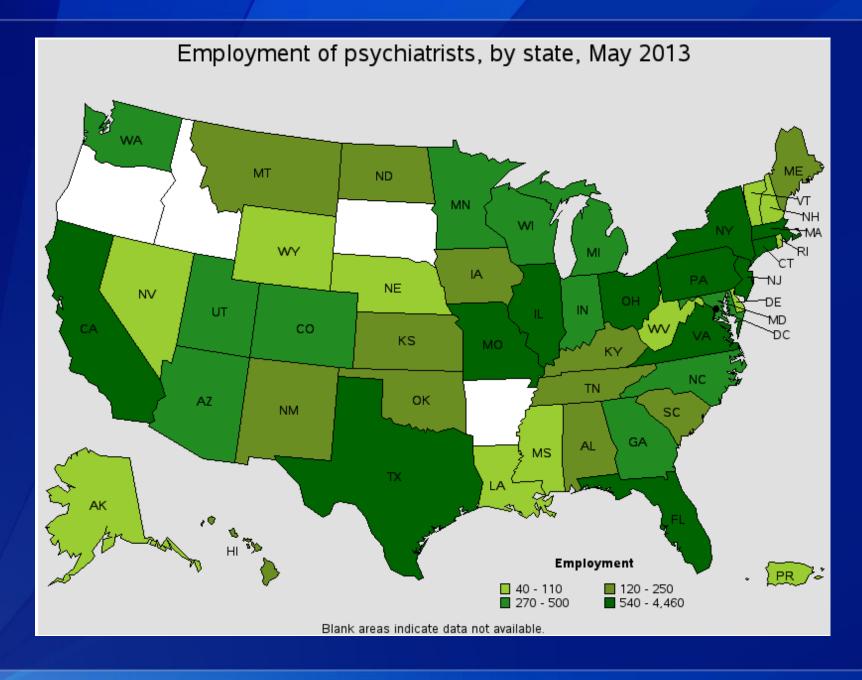
 Clinical or Developmental Psychologists, Licensed Clinical Social Workers, Behavioral Analysts More

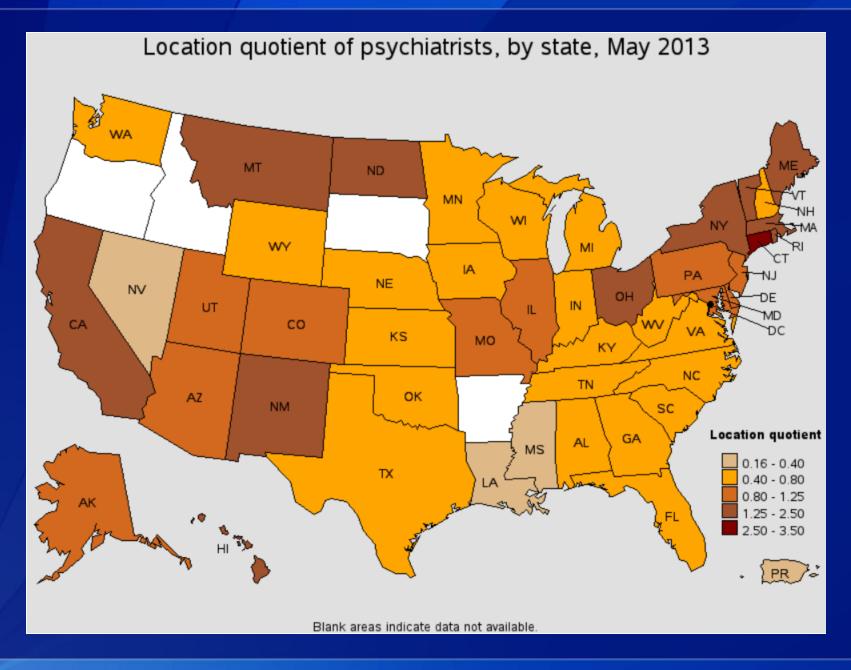
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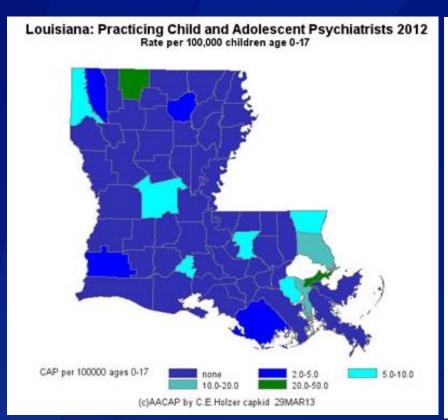


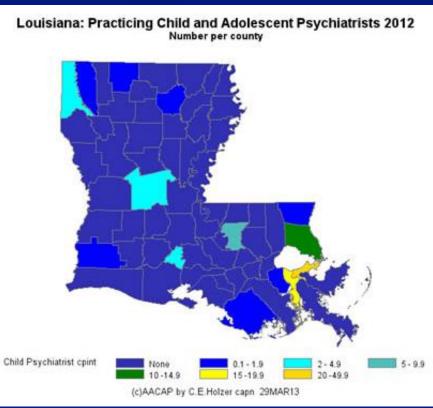






Practicing Child and Adolescent Psychiatrists in LA: 2012

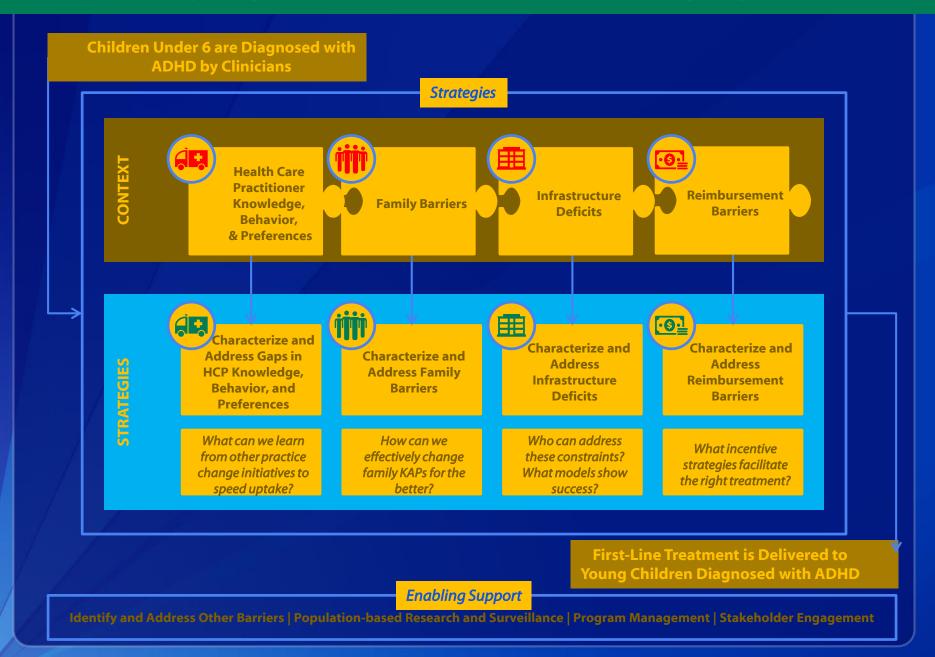




POLICY, PRACTICE, AND PROGRAM

Opportunities to Guide Clinical Practice and Family Choice

Improving the Alignment between Current & Best Practice for ADHD among Young Children



Policy as an Impetus for a Change in Clinical Practice

- State Policies and Programs to Address Psychotropic
 Medication Use in Children Foster Care Focus*
 - Additional justification required when prescribing psychotropics for young children
 - Preauthorization and peer-review for prescriptions for psychotropic medication in a young child
 - Psychiatric consultation lines to assist physicians in making referrals
 - Data registries that can be used to provide physician feedback and training
 - Preferred drug lists

Policy as an Impetus for a Change in Clinical Practice

State Policies to Address ADHD Medication Treatment in

Young Children

- Preferred drug lists consideration of FDA approvals (AMP formulations) and best practice guidelines (MPH formulations)
- Preauthorization and manual peer-review for prescribing ADHD medications in those under 6
- Requirements of psychosocial evaluation and non-med therapies tried <u>first</u>

400	ADHD MEDICATIONS IN CHILDREN < 6 years of age Prior Authorization Request Form							
If the child is a ward of DCFS, has consent to prescribe this psychotropic medication been obtained from DCFS? If not, the prescriber must obtain consent from DCFS using the Psychotropic Medication Request form at http://www.state.li.us/DCFS/library/com_communications_forms_ahtml before prescribing any exchotropic								
								medical
Fax con	npleted form: 217-524-7264		Addit	ional information: 8	800-252-8942			
Patient Information:			Prescriber Information:					
Name:			Name:					
DOB:			Phone:	F	ax:			
Patient'	s weight (kg):		Specialty:					
Nine-Di	glt HFS ID Number:		NPI#:					
Contact person for this request:								
Name:			none:	Fax	c			
		Clinical Inf	ormation					
1. Medi	cation requested:		Dose	Frequ	uency			
2. Indic	ation:							
	se list other psychiatric ilines							
	ase indicate settings where to				licable			
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Quick Reference Drug List ADHD

US Script Contact Information: Prior Authorization Phone: 1-866-399-0928

Prior Authorization Fax: 1-866-399-0929
Clinical Hours: Monday - Friday

10:00am - 8:00pm EST

Peach State Contact Information: Provider Inquiry Phone: 1-866-874-0633

Key: * = Generic product available

NOTE: These medications are covered without prior authorization for members between ages 3-18, unless otherwise noted.

Drug	Dosage Form	Medicaid PDL Status	Medicare Advantage Formulary Status					
Amphetamines								
amphetamine/ dextroamphetamine mix* (Adderall [®])	Tabs: 5mg, 7.5mg, 10mg, 12.5mg, 15mg, 20mg, 30mg	Yes	Yes					
amphetamine/ dextroamphetamine ER mix* (Adderall XR [®])	XR caps: 5mg, 10mg, 15mg, 20mg, 25mg, 30mg	Yes – Brand only Age limit – allowed for children over 6 years old	Yes – Brand only					
dextroamphetamine*	Tabs: 5mg, 10mg	Yes	Yes – except ER caps					
(Dexedrine®)	Caps ER: 5mg, 10mg, 15mg							
methamphetamine*	Tabs: 5mg	No	No					
(Desoxyn [®])								
Vyvanse [®] (lisdexamfetamine)	Caps: 20mg, 30mg, 40mg, 50mg, 60mg, 70mg	No	No					





Prior Authorization Guidelines

ADHD Medications in Children Under 6 Years Old

FDA Approved Indication:

Treatment of Attention Deficit Hyperactivity Disorder (ADHD)

Guidelines for Approval:

- 1. The requesting clinician has documented that the child has a diagnosis of ADHD
- 2. Psychosocial issues and non-medical interventions are being addressed by the clinical team.
- 3. Documentation of psychosocial evaluation occurring before request for ADHD medications.
- Documentation of non-medication alternatives that have been attempted before request for ADHD medications.

Additional Requirements:

Children under 6 years old will be monitored in accordance with the ADHS/DBHS Clinical Practice Protocol on Psychiatric Best Practice Guidelines for Children: Birth to Five Years of Age.

Coverage is Not Authorized for:

- 1. Indications other than ADHD.
- 2. Doses greater than FDA recommended maximum daily dosage.

References:

- 1. ADHS/DBHS: Provider Manual Section 3.15: Psychotropic Medication: Prescribing and Monitoring
- 2. Manufacturer Product Information
- Pliska SR, Greenhill LL, Crismon ML, et al. The Texas children's medication algorithm project: report of the Texas census conference panel on medication treatment of childhood deficit/hyperactivity disorder. Part 1. J Am Academy Child Adolescent Psychology. 200;39(7):920-927

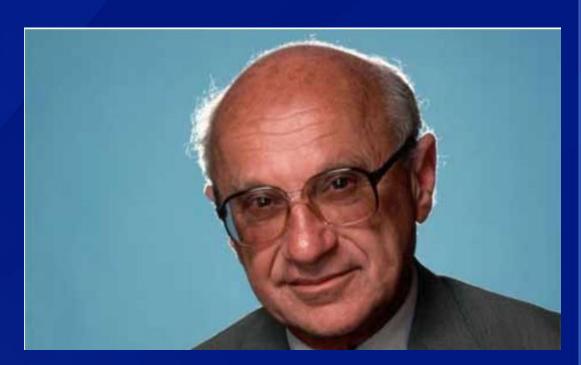
The Role of Insurers in Changing Clinical Practice

- Steps taken by Insurance Companies (select)
 - Alerts for:
 - 1+ psychotropic medications (including ADHD meds) for a child <6
 - 2+ psychotropic medications (including ADHD meds) for any child
 - 3+ psychotropic medications (including ADHD meds) for any child
 - 2+ prescribers prescribing the same psychotropic medication
 - High doses of ADHD medications
 - Targeted communication:
 - Physicians associated with the alerts above
 - Dissemination of ADHD guidelines, sometimes targeted to those treating young children

Importance of Policy Evaluation alongside Policy Intervention

"One of the great mistakes is to judge policies and programs by their intentions rather than their results."

Milton Friedman



Contact Information
www.cdc.gov/ADHD
Susanna Visser, DrPH
svisser@cdc.gov



The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

